# TRANSLATION PATENT COOPERATION TREATY

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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147 W	AS-088-1	76		
	onal application			See Form PCT/IPEA/416
PCT	/EP2004/	/01.4 <i>C</i> 20	International filing date (day/month/year)	Priority date (day/month/year)
Internati		014632	22.12.2004	27.01:2004
Internation	onal Paleni Class	ification (IPC) or nat	tional classification and IPC	-1.01.2004
GUI	N21/53,	G08B17/1	07, G08B29/04	
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Applicant				·
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1. 7	his report is the	international prelim	Ninowy .	
U	nder Article 35 a	and transmitted to the	unary examination report, established by this applicant according to Article 36.	International Preliminary Examining Authori
2. Т	his REPORT co	nsists of a total of	fi .	
				ng this cover sheet.
			NEXES, comprising:	
a.	(seni to	the applicant and to	the International Bureau a total of 4	
	⊠ si	neets of the description	on the International Bureau) a total of 4	sheets, as follows:
	in K—N	eets containing recti	fications authorized by this Authority (see Ru	omended and are the basis for this report and/o le 70.16 and Section 607 of the Administrative
		od dellons).	, ,	10 70.10 and Section 607 of the Administrative
	L   ""	cets which supersede	e earlier sheets but which this a direct	
	in	disclosure in the in	dernational and in which this Authority cons	siders contain an amendment that noss have
	in	disclosure in the ir	nternational application as filed, as indicated	siders contain an amendment that goes beyond in item 4 of Box No. I and the Supplemental
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International application No.

Box No. 1 Rusis of the ways	PCT/EP2004/014632
Bass of the report	
<ol> <li>With regard to the language, this report is based on the international application in the language.</li> </ol>	age in which it was filed, unless otherwise
This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:	nge
international search (Rule 12.3 and 23.1(b))	
publication of the international application (Rule 12.4)	
international preliminary examination (Rule 55.2 and/or 55.3)	
2. With regard to the elements of the international application, this report is based on (replacen this report):	nent sheets which have been furnished to the is "originally filed" and are not annexed to
the international application as originally filed/furnished the description:	
pages 1-16	
	as originally filed/furnished
pages* received by this Authority o	on
received by this Authority of	0
the claims:	
nos.	
	as originally filed/furnished
nos.* 1–18 as amended (toget	ther with any statement) under Article 19 27.05.2005 with letter
received by this Authority on	_of 25.05.2005
received by this Authority on	
the drawings:	
sheets 1/5-5/5	as originally Glades
sheets* received by this Authority on	as originally filed/furnished
sheets* received by this Authority on	
a sequence listing and/or any related table(s)	
a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence L	isting:
3. The amendments have resulted in the cancellation of:	
the description, pages	
the claims, nos.	
the drawings, sheets/figs	
the sequence listing (specify):	
any table(s) related to sequence listing (specify):	
This report has been established as is	
	fisted below had not been made, since all Box (Rule 70.2(c)).
the description, pages	
the claims, nos.	
the drawings, sheets/figs	
the sequence listing (specify):	
any table(s) related to sequence listing (sequence)	
If item 4 applies, some ar all of those sheets may be marked "superseded."	
	1

International application No.

Box No. V Reasoned state	ment under Article 35(2) with regard to novelty	DOM (DOM CO.
I. Statement	planations supporting such statement	y, inventive step or industrial applicability;
Novelty (N)	Claims 1-22	Y1
Inventive step (IS)	Claims 1-22	No.
India (* )		NO.
Industrial applicability (IA)	Claims 1-22	YE NO
Citations and explanations (Rule		NO.
Cited in	ort refers to the follo the search report; the throughout the proceed	numbering will be
6 Fel D2: US 20	1-6 184 537 (KNOX RONA: Druary 2001 (2001-02-06) 003/001746 A1 (BERNAL E Juary 2003 (2003-01-02)	6) BRIAN ANDREW ET AL)
the subjec	1 is considered the pr t matter of claim 1 and es of the preamble of c line 61 to column 4, 1:	d discloses all
Claim 1 con differ from	tains the following fe	eatures which
filter	attered light signal paral paral paral at a find a signal as a find filter algorithms and	valuation of the function of
	ttered light signal is	

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

differently as a function of its steepness in the filter algorithm stage prior to comparison with pre-set threshold values.

The present invention can therefore be considered to address the problem of developing a method (and a device) which is more effective, more versatile, more accurate and less expensive.

The solution proposed in claim 1 of the present application can be considered inventive (PCT Article 33(3)) for the following reasons:

Signal evaluation is not disclosed in D1. An example of that type of evaluation can be found, for example, in D2, paragraphs 47-58 and figures 3, 8 and 9. D2 uses a microprocessor with a corresponding algorithm to evaluate the signals; see paragraph 50. D2 indicates only that false alarms resulting from short-term changes in the "clean air voltage" are to be avoided with the aid of an algorithm; see paragraph 47.

Claim 1, however, discloses a filter algorithm stage with "specific filter algorithms". The filter algorithms are explained in claim 1, however, only by way of the additional feature, feature b), and in addition on page 14, lines 6-11 and 24-32 of the description.

Nevertheless, despite the non-detailed disclosure in claim 1, features a) and b) thereof are not

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

suggested by D2.

The subject matter of claim 1 and that of the corresponding device claim, claim 12, which refers back to claim 1, therefore involves an inventive step and thus meets the requirements of PCT Article 33(1).

- 3. The same also applies to dependent claims 2-11 and 13-18.
- 4. If the application is pursued in the regional phase, the following points should also be noted:
- 4.1 Pursuant to PCT Rule 5.1(a)(ii), the description should cite documents D1 and D2; the relevant prior art therein should be briefly outlined.
- 4.2 The description should be brought into line with any claims that are submitted; see, in particular, pages 4-6.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box III

The original claim 1 related to an inordinately large number of possible methods. In fact, they comprise so many alternatives, possible permutations and/or restrictions that they appear unclear or too broadly worded to the extent that it was impossible to conduct a meaningful search (PCT Article 6). The search was therefore directed to the parts of the claims which can be considered clear and concise, namely to the embodiment disclosed in the original independent device claim 11 and in the claims that are dependent thereon.

In other words, in independent claim 1, a search was carried out only for the method step "that the scattered light signal passes through a filter algorithm stage for evaluation..., and the scattered light signal is filtered...". Dependent claims 3-6 and 9 were also searched.

It appears possible at the current time to draft an examination report relating to the newly filed claims 1-22.